IPC 7	C07D405/10 C07D403/10 C07D4 C07D401/04 C07D405/14 C07D4	237/20 103/12 109/14	C07D237/14 C07D401/12 C07D401/14	C07D4 C07D4 C07D4	09/04
B. FIELDS: Minimum do IPC 7	cumentation searched (dassification system followed by class $C07D$	illication sym	bols) ·		
Electronic da	ata base consulted during the International search (name of di BS Data, EPO-Internal, WPI Data,	ata base and	, where practical, searc		urched
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of	the relevant	passages		Relevant to claim No.
X	WO 02 38568 A (HALLETT DAVID SHARP & DOHME (GB); RUSSELL M 16 May 2002 (2002-05-16) example 93 claim 13	JAMES ; ICHAEL	MERCK GEO)		1,10,11
Χ ζ ^{,,,} ,	WO 02 22605 A (KNEGTEL RONALD ;BEBBINGTON DAVID (GB); CHARRIER JEAN DAMIEN (GB);) 21 March 2002 (2002-03-21) Table 7, examples VIII-1, VIII-14, VIII-33				1,10
X	EP 0 072 726 A (SANOFI SA) 23 February 1983 (1983-02-23) table I				1,10,13
* 'X ~ Fun	ther documents are listed in the continuation of box 6:	X	· Patent family mem	bers are listed	in antex. · · ·
"A" docum consi "E" earlier filing "L" docum which citatic "O" docum other "P" docum later	ategories of cited documents: ment defining the general state of the art which is not idered to be of particular relevance document but published on or after the international date nent which may throw doubts on priority claim(s) or his cited to establish the publication date of another on or other special reason (as specified) ment referring to an oral disclosure, use, exhibition or means ment published prior to the international filling date but than the priority date claimed a actual completion of the international search	*X' *	ater document publisher or priority date and not cited to understand the invention document of particular recannot be considered involve an inventive steed document of particular reannot be considered to document is combined ments, such combinali in the art. Date of mailing of the legal control of the	in conflict with a principle or the elevance; the copy when the doelevance; the colonolve an inwith one or moon being obvious esame patent	the application but every underlying the latmed invention be considered to current is taken alone claimed invention wentive step when the one other such docuus to a person skilled family
:	16 October 2003		03/11/200	3	
Name and	i mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016		Authorized officer Fanni, S		

A. CLASSIF IPC 7	CO7D403/04 A61K31/4965 A61K31/49	7				
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS S	SEARCHED cumentation searched (classification system followed by classification	symbols)				
(Maiaman av	,	•				
Documentati	ion searched other than minimum documentation to the extent that suc	ch documents are included in the fields se	arched			
Electronic da	ata base consulted during the International search (name of data base	and, where practical, search terms used				
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where appropriate, of the relev	ant passages	Relevant to claim No.			
.,	LIEDMUTH CAMELLE OFORCE ET AL.		1			
Х	WERMUTH, CAMILLE GEORGES ET AL: "Synthesis and structure-activity					
	relationships of a series of					
	aminopyridazine derivatives of.gamma.—aminobutyric acid acting	n ac				
	selective GABA-A antagonists"	y as				
	JOURNAL OF MEDICINAL CHEMISTRY (19	987),				
	30(2), 239-49, XP002257939	_				
	Scheme I, compound III;					
	Scheme II, compound 9a					
		/				
1		, —				
· · · · · · · · · · · · · · · · · · ·	ther documents are listed in the continuation of box C.**	X Patent family members are listed	in annex.			
		"T" later document published after the into or priority date and not in conflict with				
"A" docum	ent defining the general state of the art which is not dered to be of particular relevance	cited to understand the principle or the invention	eory underlying the			
'E' earlier filing	document but published on or after the international date	'X" document of particular relevance; the cannot be considered novel or canno	claimed invention It be considered to			
which	*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention					
cliation or other special reason (as specified) cannot be considered to involve an inventive step when the cannot be combined with one or more other such document is combined with one or more other such document.						
other	other means ments, such combination being obvious to a person skilled "P" document published prior to the international filing date but in the art.					
later t	than the priority date claimed	*&* document member of the same patent				
Date of the	actual completion of the international search	Date of mailing of the International se	earcn repon			
1	16 October 2003					
Name and	mailing address of the ISA	Authorized officer				
	European Palent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tol. (131–70) 340–2040 Tv. 31 651 opp of					
!	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Fanni, S				

C/Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °		Relevant to claim No.
Х	AURICCHIO, SERGIO ET AL: "New cleavage of the azirine ring by single electron transfer: the synthesis of 2H-imidazoles, pyridazines and pyrrolines" EUROPEAN JOURNAL OF ORGANIC CHEMISTRY (2001), (6), 1183-1187, XP002257940 examples 3A-3C	1
X	RIVAL, YVELINE ET AL: "5-HT3 Antagonists Derived from Aminopyridazine-type Muscarinic M1 Agonist" JOURNAL OF MEDICINAL CHEMISTRY (1998), 41(3), 311-317, XP002257941 scheme 1	1,10
X	SOUTH, MICHAEL S. ET AL: "Synthesis and Reactions of Haloazodienes. A New and General Synthesis of Substituted Pyridazines" JOURNAL OF ORGANIC CHEMISTRY (1996), 61(25), 8921-8934, XP002257942 examples 9,10; table 1	1
X	BLY, RUTA K. ET AL: "Heterocyclic studies. XIII. The aldol condensation of 2,3-dihydro-5-methy 6-phenyl-4H-1,2diazepin-4-one and rearrangement to a pyridazine" JOURNAL OF ORGANIC CHEMISTRY (1964), 29(8), 2128-35, XP002257943 examples 15A-D	
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; ATKINSON, C. M. ET AL: "Triazaphenanthrenes. III. Synthesis of some 9-aryl-2,3,10- triazaphenanthrenes" retrieved from STN Database accession no. 53:67737 XP002257945 abstract & JOURNAL OF THE CHEMICAL SOCIETY, ABSTRACTS (1959) 1-5,	. 1
	-/	

PCT/65'03/03376

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; SAMSONOV, V. A. ET AL: "Preparation and reactions of pyrroline N-oxides obtained by reaction of isonitroso ketones with enamines" retrieved from STN Database accession no. 126:18740 XP002257946 abstract & KHIMIYA GETEROTSIKLICHESKIKH SOEDINENII (1996), (8), 1055-1061,	
X	HARRIS, R.L.N. ET AL.: "The effect of C-2-carboxyphenyl Derivatives of Certain Heterocyclic Compounds on Root Geotropism in Cress Seedlings" PESTICIDE SCIENCE, vol. 11, 1980, pages 439-444, XP009019048 example XV	1
X	OLIVER, J.E ET AL.: "Alkylation and Rearrangement of Lithiated 3-Methyl-1,2-benzisoxazoles" JOURNAL OF ORGANIC CHEMISTRY, vol. 54, 1989, pages 4970-4973, XP002257944 table I	
X	BREUKELMAN, S.P: "Preparation and some Reactions of 4- and 5-Aryl-4,5-dihydropyrazin-3(2H)-ones" J. CHEM. SOC. PERKIN TRANS., 1985, pages 1627-1635, XP009019047 page 1629; example 25	1
X	JOJMA, T. ET AL.: "Pyridazine I. Novel Intramolecular Cycloaddition of 3-Chloro-6-(2-allylphenoxy)pyridazines" CHEMICAL&PHARMACEUTICAL BULLETIN, vol. 20, no. 10, - 1972 pages 2191-2203, XP009019056 page 2195; example IX	1
х	US 4 810 705 A (CHAMBON JEAN-PIERRE ET AL) 7 March 1989 (1989-03-07) examples I-IX	1
A	US 6 255 305 B1 (GUIBLIN ALEXANDER RICHARD ET AL) 3 July 2001 (2001-07-03) column 3, line 4 - line 18 claim 1	1,10,13

▼CT/GB 03/03376

Box I	Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)
This Inte	omational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: 13 because they relate to subject matter not required to be searched by this Authority, namely: see FURTHER INFORMATION sheet PCT/ISA/210
. e. X.	Claims Nos.: 1(partially) because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carded out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
з. 🔲	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This inte	ernational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
, 3	.As.only, some, of the required additional.search.fees.were.timety.paid.by.the.applicant_this.international.Search.Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remar	the additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claim 13 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box I.1

Claims Nos.: 13

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

Continuation of Box I.2

Claims Nos.: 1(partially)

The initial phase of the search revealed a very large number of documents relevant to the issue of novelty. So many documents were retrieved that it is impossible to determine which parts of the claim(s) may be said to define subject-matter for which protection might legitimately be sought (Article 6 PCT). For these reasons, a meaningful search over the whole breadth of the claim(s) is impossible. Consequently, the search has been restricted to compounds of formula I according to present claim 1 for which R1 is always other than hydrogen.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO portry when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

PCT/65"03/03376

				101/2	0 00,00010
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
		10.05.0000	A11	100000 A	21 05 2002
WO 0238568	Α	16-05-2002	AU	1253002 A 2427779 Al	21-05-2002 16-05-2002
			CA	1343788 A1	17-09-2002
			EP		16-05-2002
			WO	0238568 A1	30-01-2003
			WO US	03008418 A1 2003055060 A1	20-03-2003
WO 0222605	Α	21-03-2002	AU	9091201 A	26-03-2002
			AU	9091401 A	26-03-2002
			AU	9094401 A	26-03-2002
			AU	9101301 A	26-03-2002
			AU	9267001 A	26-03-2002
			AU	9455801 A	26-03-2002
			AU .	9687101 A	26-03-2002
			AU	9687501 A	26-03-2002
			BR	0114088 A	17-06-2003
			CA	2422299 A1	21-03-2002
			CA	2422354 A1	21-03-2002
			CA	2422367 A1	21-03-2002
			CA	2422371 A1	21-03-2002
			CA	2422377 A1	21-03-2002
			CA	2422378 A1	21-03-2002
			CA	2422379 A1	21-03-2002
			CA	2422380 A1	21-03-2002
			EP	1317447 A1	11-06-2003
			EP	1317444 A1	11-06-2003
			EP	1317448 A1	11-06-2003
•			EP	1318997 A1	18-06-2003
			ΕP	1317449 A1	11-06-2003
			EP	1317450 A1	11-06-2003
			EP	1317452 A1	11-06-2003
			EP	1318814 A2	18-06-2003
			HU	0302172 A2	29-09-2003
			HU	0302173 A2	29-09-2003
			NO	20031188 A	13-05-2003
			NO	20031189 A	13-05-2003
			NO	20031190 A	13-05-2003
			NO	20031191 A	13-05-2003
			MO	0222603 A1	21-03-2002
			WO	0222601 A1	21-03-2002
•			MO.	0222604" A1	21-03-2002"
			WO	0222605 A1	21-03-2002
			MO	0222606 A1	21-03-2002
			WO	0222607 A1	21-03-2002
			MO	0222608 A1	21-03-2002
			WO	0222602 A2	21-03-2002
			US	2003073687 A1	17-04-2003
			บร	2003083327 A1	01-05-2003
			US	2003064981 A1	03-04-2003
			US	2003064982 A1	03-04-2003
			US	2003055044 A1	20-03-2003
			US	2003078166 A1	24-04-2003
			AU	3116602 A	01-07-2002
			AU	3404702 A	01-07-2002
			BR	0116493 A	30-09-2003
			CA	2432129 A1	25-07-2002
			<u> </u>		

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
		AR	231441 A1	30-11-1984
EP 0072726 A		AR AR	231637 A1	31-01-1985
		AT	18216 T	15-03-1986
		AT	· 12227 T	15-03-1985
		ΑÜ	548930 B2	09-01-1986
		AU	8655382 A	10-02-1983
		AU	548931 B2	09-01-1986
		AÜ	8655482 A	10-02-1983
		CA	1174240 A1	11-09-1984
		CA	1179346 A1	11-12-1984
		CS	229940 B2	16-07-1984
	•	ĊŚ	229941 B2	16-07-1984
		DD	202715 A5	28-09-1983
		DD	202549 A5	21-09-1983
		DE	3262671 D1	25-04-1985
		DE	3269383 D1	03-04-1986
		DK	354382 A ,B,	08-02-1983
		DK	354482 A ,B,	08-02-1983
		EG	15788 A	30-09-1986
		EG	15747 A	30-06-1986
		EP	0074863 A1	23-03-1983
		EP	0072726 A1	23-02-1983
		ES	8305737 A1	16-07-1983
		ES	8305738 A1	16-07-1983
		FI	822747 A ,B,	08-02-1983
		FΙ	822748 A ,B,	08-02-1983
		GR	76429 A1	10-08-1984
		GR	76430 A1	10-08-1984
		HU	189166 B	30-06-1986
		ΗÜ	190028 B	28-08-1986 26-10-1988
		IE IE	53387 B1 53388 B1	26-10-1988
		IL	66408 A	31-12-1985
		IL	66409 A	29-09-1985
		JP	1771027 C	30-06-1993
		JP	4059312 B	21-09-1992
		JP	58077867 A	11-05-1983
		JP	58077868 A	11-05-1983
		KR	8901569 B1	08-05-1989
		KR	8801624 B1	02-09-1988
		NO.	822509 A""; B",	08=02-1983
		NO	822510 A ,B,	08-02-1983
		NZ	201518 A	30-04-1985
		NZ	201520 A	30-04-1985
		OA	7175 A	30-04-1984
		OA	7176 A	30-04-1984
		PH	18545 A	09-08-1985
		PL	237808 A1	28-02-1983
		PL	237809 A1	28-02-1983
US 4810705 A	07-03-1989	FR	2562071 A1	04-10-1985
		CA	1249276 A1	24-01-1989
		EP	0156734 A2	02-10-1985
		JP	60224691 A	09-11-1985
US 6255305 B3	03-07-2001	AT	236904 T	15-04-2003
US 6255305 B3	03-07-2001	AT AU AU	236904 T 724076 B2 3551997 A	15-04-2003 14-09-2000 20-02-1998

Patent document cited in search report	Publication date		Patent family member(s)		Publication date
US 6255305 B1		AU	723098	B2	17-08-2000
30 020000		AU	3553997	Α	20-02-1998
		BG	103112	Α	30-09-1999
		BR	9710729	Α	17-08-1999
		CA	2260774	A1	05-02-1998
		CN	1251589	Α	26-04-2000
		CZ	9900181	A3	16-06-1999
		DE	69720732	D1	15-05-2003
		EΑ	2436	B1	25-04-2002
		EE	9900027	Α	16-08-1999
		EP	0915877	A1	19-05-1999
		ΕP	0915875	A2	19-05-1999
		MO	9804560	A1	05-02-1998
		WO	9804559		05-02-1998
		JP	2002514169	T	14-05-2002
		JP	2000515851	T	28-11-2000
		KR	2000029548		25-05-2000
		NO	990304		25-03-1999
		NZ	333768		29-09-2000
		PL	331072		21-06-1999
		SK	9399		10-04-2000
		TR	9900047	_	22-03-1999
		US	6465462		15-10-2002
		ZA	9706591		18-08-1998
		HR	980035		30-06-1999
		TW	480261	В	21-03-2002